

WE CLAIM:

1. A method for processing a notification having a tag value, comprising:
- (a) receiving the notification;
 - (b) determining a synchronization state; and
 - (c) processing the notification based on the synchronization state.

2. The method of Claim 1, wherein determining a synchronization state, further comprises:

- (a) setting a synchronization currently in process state when a synchronization is in process; otherwise
- (b) setting a synchronization currently not in process state.

3. The method of Claim 2, wherein processing the notification based on the synchronization state, further comprises determining when the synchronization state is set to a state of no synchronization currently in process, and when:

- (a) processing the notification when the tagged value is current with respect to the current synchronization checkpoint value;
- (b) discarding the notification when the tagged value is stale with respect to the current synchronization checkpoint value; and
- (c) handling the notification when the tagged value is out-of-date with respect to the current synchronization value.

4. The method of Claim 3, wherein handling the notification when the tagged value is out-of-date with respect to the current synchronization value, further comprises determining if the tagged value corresponds to a lost request key, and if so processing the notification, otherwise discarding the notification.

5. The method of Claim 2, wherein processing the notification based on the synchronization state, further comprises determining when the synchronization state currently in process is set, and when:

the desired synchronization level and current with respect to the sync level of a lost sync request; and

(c) handling the notification when the tagged value is out-of-date with respect to the current synchronization value.

10. The computer-readable medium of Claim 9, wherein handling the notification when the tagged value out-of-date with respect to the current synchronization value, further comprises determining if the tagged value is current with respect to the lost request key, and if so processing the notification, otherwise discarding the notification.

11. The computer-readable medium of Claim 8, wherein processing the notification based on the synchronization state, further comprises determining when the synchronization state currently in process is set, and if so:

(a) queuing the notification when the tagged value is current with respect to the desired synchronization level;

(b) discarding the notification when the tagged value is stale with respect to the desired synchronization value or out-of-date with respect to the desired synchronization level and current with respect to the sync level of a lost sync request; and

(c) handling the notification when the tagged value is out-of-date with respect to the desired synchronization level.

12. The computer-readable medium of Claim 11, further comprising processing the notification when the synchronization not currently in process state is set.

13. A system for synchronizing data, comprising:

(a) a processor and a computer-readable medium;

(b) an operating environment stored on the computer-readable medium and executing on the processor;

(b) discarding the notification when the tagged value is stale with respect to the desired synchronization value; and

17. The system of Claim 16, further comprising processing the notification when the synchronization state is set to synchronization currently not in process state.